BOOK

s dth	Depth 6	Contents 7	Reference to last Measurement 8

BR-508 29-9-16

1st and final Bill

M. A. R. 57 (Rule 116)
Measurement Book

No. 31

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency ..... KREDL
Date of commencement of work ..... D.O. Recording : 20/09/2016

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Name of work : Providing CC. Road at A.K colony Singapura in Ward no. 11, Channapattana Sub Division						
	Estimated cost Rs. 19.11 Lakh,						
	DOB.no = 011-16-000049						
	Work order no = BBMP/EE B/BTP/WO/97/2016-17 Dt. 05.09.16						
	Date of Commencement 06.09.2016						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Date of completion, 20-09-2016						
(1)	Dismantling of existing structures like culverts, bridges, retaining walls, and other structures comprising of masonry, cement concrete, wood work, steel work, including Tad P. and depositing wherein necessary, during the dismantled material, disposal of unserviceable materials and lead and lift 10,000 mts complete. as per specifications, brief						
	cement concrete. by manual means, C.C. grade						

Serial No. .....
Name of Work .....
Name of Contractor of nat
Date of commencement of

Date	Full description
1	2
	grade -
	specifica
(2)	Earth work
	and. incl
	2m and o
	Surface i
	disposed

T BOOK

sions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
26			
... brick culverts, ... other structures ... earth, wood work, ... depth(d) wherein ... material, disposal ... lead and ... operations level ... ing, C.C. grade			

M. A. R. 57 (Rule 116)
Measurement Book

No. B

265532

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	grade - M-15 as ... specifications,	M-20	etc. complete as per			per	
			qty vide this MB. p 265588				
		☆(1)	1	84.00	4.5 m	378.24 m³	31,520.00
	(2) Earth work excavation by Manual mean in ordinary soil including an average horizontal throw upto 2m and an average lift upto 0.50m, Excavated Surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	of clods complete as per specifications and direction of Engineer-in-charge of work.						
			qty as above, this MB p. 265588				
			# no. (2)	= 125	994 cft	81.62/y³	10283.00
(3)	Removing of B. & clods of drain and stacks etc complete as per specifications.						
			qty as above this MB p. 265580				
			# no. (3)	2	577.80 y³	@ 63.72/y³	36817.00
(4)	Refixing of stone slabs of drains and pointing in						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	CM 1:3.
(5)	Providing and laying of mix 1:4:8 with down and down Coarse aggregate 0.57 y³, Mach

NT BOOK

nensions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
		Cutting and disposal	
		do. this MB. p. 265588	
		= 125.994 yd³ @ 81.62/yd³	10283.00
		drain and Stacking	
		do this MB. p 265580	
		③ 2 577.804 yd³ @ 63.72/yd³	36817.00
		ast and pointing in	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

265533

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	CM 1:3.						
						qty as per Item ③	
						= 577.804 yd² @ 78.84/yd²	45,554.00
⑤	Providing and laying in position plain cement concrete						
	of mix 1:4:8 with ope cement @ 180 kg with						
	40mm and down size graded granite metal						
	Coarse aggregate @ 0.85 yd³ and fine aggregate @						
	0.57 yd³, machine mixed, concrete laid in layers						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	not exceeding 15 cms thick, well compacted in foundation and plinth, including costing all materials, labour charges of mixing, curing complete as per specifications and directions of Engineer-in-Charge of work.						
						Qty as per this MB. P 26559	
						Amt. (4) 145.65 m³ @ 4996.70 per m³	724856 00
(6)	Providing and removing, centering, shuttering strutting propping etc and removing formwork for vertical						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agen
Date of commencement of work .....

Date	Full description, etc, of wor
1	2
	Surface such a attached pilaste costing all mat specifications. a work.
(7)	Providing and lay

ENT BOOK

Dimensions			Contents	Reference to last Measurement
th	Breadth 5	Depth 6	7	8
ul	Compacted in foundn			
	Material, labour rate			
e	as per specification			
	- charge of work.			
de	this MB. P 265591			
)	145.653 @ 4976.70/-		724856=00	
g,	Shuttering strutting			
	formwork for vertical			

M. A. R. 57 (Rule 116)
Measurement Book

No. B 265534

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Surface such as walls of any thickness, including attached pilasters, buttresses, plinth and string course complete as per specifications and directions of Engineer-in-charge of work.						
						as per MB (5) P. 265592	
(7)	Providing and laying cement concrete using 20mm and	= 64.204 m² @ 306.72/- m²					19691.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	down size granite jelly of Ready mixed concrete (RMC) for Ree Works laid in 15cms thicle layers and well compacted Vibrating, curing, finishing with necessary cement mortar, forms works of doglegging to withstand pumping of concrete with all leads and lifts etc complete, Rmc M-20 (1:1.5:3) for Raft foundation, column footing, wall and secondary beam.						
	Singapura Colony - 2 - (Cross)	1	30.00	$\frac{4.2+3.0}{2}$	0.125	17.254	
		1	15.00	$\frac{2.5+2.1}{2}$	0.125	5.20	
		1	9.00	$\frac{3.1+2.9}{2}$	0.125	3.38	
		1	30.00	$\frac{3.8+4.0}{2}$	0.125	(4.6)	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ...
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	(b) Main Road C&FC.
	(c) Cross Road - 1
	(d) Cross Road - 2

BOOK

ions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
ed concrete (RMC)			
ch and well compacted			
, cement mortar, finis			
pumping of concrete			
ne M-20 (1:1.5:3)			
ad decently bem			
4.2+3.5 / 2	0.125	17.254	
2.5+3.1 / 2	0.125	5.20	
3.1+2.9 / 2	0.125	3.38	
3.8+4.0 / 2	0.125	(4.6)	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 265535

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	(b) . Main Road	1	13.60	4.0+5.9+6.2 / 3	0.125	9.124	
		1	30.40	4.3+4.0 / 2	0.125	15.584	
		1	30.40	4.0+5.1 / 2	0.125	17.06	
		1	4.40	5.1+5.6 / 2	0.125	2.68	
		1	7.10	4.1+5.7+6.3 / 3	0.125	4.88	
	C&FC.						
	P.S. (30.2.21)						
	(c) Cross Road - 1	1	24.40	6.4+6.2 / 2	0.125	19.22	
	(d) Cross Road - 2	1	7.40	2.30	0.125	2.01	
		1	5.30	1.70	0.125	1.13	
		1	2.20	1.90	0.125	0.52	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	5.30	3.10	0.125	2.05	
		1	3.40	2.10	0.125	0.85	
		1	2.90	1.25	0.125	0.45	
		1	3.30	0.90	0.125	0.37	
		1	7.80	1.70	0.125	1.66	
		1	6.80	2.45+1.27/2	0.125	2.17	
		1	1.30	1.10	0.125	0.18	
		1	4.25	2.70	0.125	1.44	
		1	4.70	1.00	0.125	0.88	
		1	2.60	1.10	0.125	0.33	
						123.104 m³	
					Ltd to	124.18 m³	
						@ 6332.04/m³	

Cross Road 3

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Serial No. .....
Name of Work .....
Name of Contractor of nat
Date of commencement o

Date	Full description
1	2
(8)	Vacuum - D mat ud floating d machine dide ek directing Singapura c

cy. 2nd cRoss

T BOOK

sions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
3.10	0.125	2.05	
2.40	0.125	0.85	
1.20	0.125	0.45	
0.90	0.125	0.37	
1.70	0.125	1.61	
2.45+2.27 / 2	0.125	2.17	
1.10	0.125	0.18	
2.76	0.125	1.41	
1.50	0.125	0.88	
1.60	0.125	0.33	
		123.10 m³	
	Ltd to	124.38 m³	

@ 6332.04/m³

M. A. R. 57 (Rule 116)
Measurement Book

No. B 265536

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	2	Number 3	Length 4	Breadth 5	Depth 6	7	8
(8)	Vacuum - De-Watering, With vacuum pump and ductings mat and compacting With Skin floaters clubbed With floating disc including costing generators Normal machines screed vibrating, power. floater, blade and disc etc With all leads and Lifts and as per specifications and directions of Engineer. In-charge of Work.						
	Singapore colony						
	Ref. 2nd CRO's	1	30.40	4.2+5.0 / 2	:	138.102	
		1	15.40	2.5+3.0 / 2	:	42.40	
		1	9.40	3.1+3.0 / 2	:	27.40	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	30.00	$\frac{3.8+4.0}{2}$	=	117.00	
		1	13.60	$\frac{4.0+5.9+6.2}{3}$	=	72.99	
	(b) - Main Road	1	30.00	$\frac{4.3+4.0}{2}$	=	124.50	
		1	30.00	$\frac{4.0+5.1}{2}$	=	136.50	
		1	4.00	$\frac{5.1+5.6}{2}$	=	21.40	
		1	7.10	$\frac{4.1+5.7+6.3}{3}$	=	39.00	
	(c) Cross-Road-1	1	24.00	$\frac{6.4+6.2}{2}$	=	153.72	
	(d) Cross-Road-2	1	7.00	2.30	=	16.10	
		1	5.30	1.70	=	9.01	
		1	2.20	1.90	=	4.18	
		1	5.30	3.10	=	16.43	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Ag
Date of commencement of work ....

Date	Full description, etc, of w
1	2
	Cross-Road - 3
	(9) Providing gra and depth ge generator, and

BOOK

ons		Contents	Reference to last Measurement
readth 5	Depth 6	7	8
.8+4.0 / 2	=	11.4 m	
.0+5.9+6.2 / 3	=	72.99	
1.3+4.0 / 2	=	124.50	
1.0+5.1 / 2	=	136.50	
5.1+5.6 / 2	=	21.42	
4.1+5.7+6.7 / 3	=	39.00	
6.4+6.2 / 2	=	153.72	
2.30	=	16.10	
1.70	=	9.01	
1.90	=	4.18	
3.10	=	16.43	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 265537

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		1	3.40	2.40	-	6.804 m²	
		1	2.90	1.25	-	3.63	
		1	7.80	1.70	-	13.26	
	Cross-Road - 3	1	6.80	2.45+2.70	=	17.51	
		1	4.25	2.75	-	11.69	
						970.764 m²	
						@97.20 /- m²	
(9)	Providing groove cutting for width upto 5mm to 10mm and depth 80mm - 100mm including cost of cutting machine generator, and Honing machine including cost of blade						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Coolouth etc including cleaning of groove and providing Sand at hot bitumen fillers, and filler metal etc including costing conveyance of all materials, labours, Land and Lift charges and all other incidental charges as per drawing and as per the Specifications etc.						
		5×1	4.20	-	-	21.00	
		2×1	5.40	-	-	10.80	
		3×1	6.20	-	-	18.60	
		3×1	5.00	-	-	15.00	
		5×1	3.00	-	-	15.00	
		2×1	3.80	-	-	7.60	
		3×1	3.50	-	-	10.50	
						98.50 Rmt	
	Add to 96.50 Rmt @ 124.20/Rmt						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Age
Date of commencement of work .....

Date	Full description, etc, of wo
1	2
(1)	Lead for Disposal rates by mecha charges.
	Add KRIDL - C
	Add third par

NT BOOK

mensions			Contents	Reference to last Measurement
n	Breadth 5	Depth 6	7	8
+ groove and providg fitter metal etc includg ads, labours, lead and tal charges as per drawg				
20	-	-	21.00	
40	-	-	10.80	
20	-	-	18.60	
00	-	-	15.00	
00	-	-	15.00	
0	-	-	7.60	
50	-	-	10.50	
			98.50 Rft	

96.50 Rft @ 124.20/Rft

M. A. R. 57 (Rule 116)
Measurement Book

No. B 265538

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	(1) Lead for Disposal of debris shall be payable in Cmtrs rates by mechanical means includg loadg and unloadg charges.						
						9007.00	
						Total Rs	17,52,654.00
							1,40,212.00
							17,529.00
	Add KRIDL. charges @ 8%.						
	Add third party Inspection. charges @ 1%.						

9qty nds. @ 00 @ = 125.994m³
Ld @ 90.004m³ @100.084m³

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
					Grand Total.	19,10,393.00	
						18,92,893-	
	Certificate						
	(1) Certified such the above work done satisfactorily.						
	(2) The Contractor has removed the debris from work site.						
	(3) There is no any dept. materials issued to Contractor						
	20/09/16						
						20/9/16	

Assistant Executive Engineer
Vidyaranyapuram Sub Division
Bangalore - 97

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ...
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Amount received for passing
	20/09

NT BOOK

nensions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
		Grand Total.	19,10,393.00
			18,92,893-
e done satisfactorily.			
d the debris from			
ch issued to Contractor			

Assistant Executive Engineer
Vidyaranyapura Sub Division
Bangalore-97

M. A. R. 57 (Rule 116)
Measurement Book

No. B 265539

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Amount Expended						
				W 0220		L 0355	
				2ND CROSS			
				3RD CROSS			
				W 0242			

20/09/16

Assistant Executive Engineer
Vidyaranyapura Sub Division

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Audited & Admitted for Rs 1892893- 16,35,461- and Rs 257432- Accts. Suppt. Byatarayanapura Dn BBMP					I.T.. 37857- AST 75715- FSD. 94645- LWC 18929- Roy 28393- CBP 1893- 2.57.432-	

Serial No. .....
Name of Work .....
Name of Contractor of nature of
Date of commencement of work

Date	Full description, etc,
1	2